

1135-VP-3007      **Kathleen M Ryan\*** ([kathleen.ryan@desales.edu](mailto:kathleen.ryan@desales.edu)), 2755 Station Avenue, Center Valley, PA 18034, and **Theresa Marlin**. *Degree Sequences of Halin Graphs and Their Subgraphs*. Preliminary report.

Informally speaking, a Halin graph is essentially a tree  $T$  where a cycle has been drawn through the leaves of  $T$ . (A more formal definition will be presented during the talk.) Moreover, a *partial Halin graph* is a spanning subgraph of a Halin graph. In other words, a partial Halin graph can be obtained by removing edges from a Halin graph. In this talk, we characterize the degree sequences of partial Halin graphs, and we also discuss how a related edge-coloring problem gave us impetus to discover this characterization. (Received September 26, 2017)